Journal of Crystal Growth 123 (1992) 619–623
North-Holland

JOURNAL OF CRYSTAL GROWTH

Author index

Abstreiter, G., see Wegscheider 123 (1992) 75
Adibi, F., see Kimura 123 (1992) 344
Agafonov, V., R. Ceolin, R. Moret, D. André, A. Dworkin, H. Szwarc, C. Fabre, A. Rassat, J.M. Cense, A. Zahab and P. Bernier, Morphology of C_{60} decagonal crystals grown from n-hexane 123 (1992) 366
André, D., see Agafonov 123 (1992) 366
Aoki, Y., S. Hayashi and H. Komatsu, Liquidus- and eutectic-temperature measurements of Al-rich alloys containing Cu and Si in a magnetic field of 3.5 T 123 (1992) 313
Ashida, M., see Hayashi 123 (1992) 35
Astier, J.P., see Boistelle 123 (1992) 109

Bala, M., see Singh 123 (1992) 601
Balk, P., see Kohl 123 (1992) 174
Barbusse, D., see Lazzari 123 (1992) 465
Bauer, S., see Kuhn 123 (1992) 605
Bennema, P., L.J.P. Vogels and S. de Jong, Morphology of β phase monoacid triacylglycerol crystals: theory and observations 123 (1992) 141
Bernier, P., see Agafonov 123 (1992) 366
Bhalla, A.S., see Yamamoto 123 (1992) 423
Bhat, R., see Kim 123 (1992) 69
Biber, C.R., C.A. Wang and S. Motakef, Flow regime map and deposition rate uniformity in vertical rotating-disk OMVPE reactors 123 (1992) 545
Biefeld, R.M., see Schneider 123 (1992) 487
Billia, B., H. Jamgotchian and R. Trivedi, Improved analysis of tip undercooling in cellular solidification of a binary alloy 123 (1992) 399
Bobrobnikova, I.A., L.G. Lavrent'eva, M.P. Rusaikin and M.D. Vilisova, Doping and impurity–vacancy complex formation during vapour-phase epitaxy of gallium arsenide 123 (1992) 529
Boistelle, R., J.P. Astier, G. Marchis-Mouren, V. Desseaux and R. Haser, Solubility, phase transition, kinetic ripening and growth rates of porcine pancreatic α-amylase isoenzymes 123 (1992) 109
Brauers, A., see Kaul 123 (1992) 411
Briones, F., see González 123 (1992) 385
Brokman, A., see Vilenkin 123 (1992) 261
Bryan, R.P., see Schneider 123 (1992) 487

Bubulac, L.O. and C.R. Viswanathan, Diffusion of As and Sb in HgCdTe 123 (1992) 555
Bunkin, A.Yu., Capture of inclusions during Czochralski growth of lead germanate and gadolinium molybdate crystals 123 (1992) 459

Cahn, J.W., J.G. Dash and H. Fu, Theory of ice premelting in monosized powders 123 (1992) 101
Caneau, C., see Kim 123 (1992) 69
Cense, J.M., see Agafonov 123 (1992) 366
Ceolin, R., see Agafonov 123 (1992) 366
Chen, P.C., C.Y. Tai and S.M. Shih, Control of crystal habit and particle morphology of calcium sulfite hemihydrate crystals 123 (1992) 277
Cheng, C.S., see Tai 123 (1992) 236
Choi, G.H., see Suk 123 (1992) 5
Colas, E., see Kim 123 (1992) 69
Coriell, S.R., see Singh 123 (1992) 221
Coriell, S.R., see Singh 123 (1992) 227
Cornet, A., see González 123 (1992) 385
Cullis, A.G., D.J. Robbins, A.J. Pidduck and P.W. Smith, The characteristics of strain-modulated surface undulations formed upon epitaxial $S_{1-z}Ge_z$ layers on Si 123 (1992) 333

Dai, Ting-Arn, see Lin 123 (1992) 451
Dash, J.G., see Cahn 123 (1992) 101
Davey, R.J., see Harding 123 (1992) 373
De Jong, S., see Bennema 123 (1992) 141
De Keijser, M., see Dormans 123 (1992) 537
Desseaux, V., see Boistelle 123 (1992) 109
Dondl, W., see Wegscheider 123 (1992) 75
Dormans, G.J.M., P.J. van Veldhoven and M. de Keijser, Composition-controlled growth of $PbTiO_3$ on $SrTiO_3$ by organometallic chemical vapour deposition 123 (1992) 537
Dou, Shue-xing, see Zhang 123 (1992) 255
Dubs, C., K. Fischer and P. Görnert, Liquid phase epitaxy of $YBa_2Cu_3O_{7-x}$ on $NdGaO_3$ and $LaGaO_3$ substrates 123 (1992) 611
Dümichen, U., see Kuhn 123 (1992) 605
Duva, J.M., see Seidel-Salinas 123 (1992) 575
Duval, W.M.B., see Singh 123 (1992) 221
Duval, W.M.B., see Singh 123 (1992) 227
Dworkin, A., see Agafonov 123 (1992) 366

Ehinger, M., M. Wenzel, A. Waag and G. Landwehr, Scanning tunneling microscope investigation of CdTe substrate surfaces for molecular beam epitaxy 123 (1992) 42

Fabisiak, K., see Marciniak 123 (1992) 587
Fabre, C., see Agafonov 123 (1992) 366
Fischer, K., see Dubs 123 (1992) 611
Fivash, M.J., see Samudzi 123 (1992) 47
Fourcade, R., see Lazzari 123 (1992) 465
Fu, H., see Cahn 123 (1992) 101

Gałązka, R.R., see Grasza 123 (1992) 519
Gebhardt, W., see Kuhn 123 (1992) 605
Geertman, R.M., see Van der Heijden 123 (1992) 321
Ghez, R. and R. Madar, Crystal growth as a problem in chemisorption 123 (1992) 317
Glicksman, M.E., see Singh 123 (1992) 221
Glicksman, M.E., see Singh 123 (1992) 227
González, L., see González 123 (1992) 385
González, Y., L. González, F. Briones, A. Vilà, A. Cornet and J.R. Morante, Initial stage of epitaxial growth at low temperature of GaAs and AlAs on Si by atomic layer molecular beam epitaxy (ALMBE) and MBE 123 (1992) 385
Görnert, P., see Dubs 123 (1992) 611
Goswani, D.P., see Singh 123 (1992) 601
Gottlieb, M., see Singh 123 (1992) 221
Gottlieb, M., see Singh 123 (1992) 227
Grasza, K., U. Zuzga-Grasza, A. Jędrzejczak, R.R. Gałązka, J. Majewski, A. Szadkowski and E. Grodzicka, A novel method of crystal growth by physical vapour transport and its application to CdTe 123 (1992) 519
Greene, J.E., see Kimura 123 (1992) 344
Grodzicka, E., see Grasza 123 (1992) 519
Grunberg, P., see Lazzari 123 (1992) 465

Haga, N., see Nagata 123 (1992) 1
Harding, M.M., R.J. Rule, R.J. Oldman and R.J. Davey, Growth rate dispersion in small crystals and its relation to mosaic spread 123 (1992) 373
Harris, Jr., J.S., see Kim 123 (1992) 439
Haser, R., see Boistelle 123 (1992) 109
Hatakoshi, G., see Nishikawa 123 (1992) 181
Hayashi, S., H. Ikuno, H. Yanagi and M. Ashida, Epitaxial growth and molecular orientation of tetra(4-pyridyl)porphyrin thin film vacuum-evaporated on KCl 123 (1992) 35
Hayashi, S., see Aoki 123 (1992) 313
Hayashi, S., see Inoue 123 (1992) 615
Henningsen, T., see Singh 123 (1992) 221
Henningsen, T., see Singh 123 (1992) 227
Hicks, R.F., see Liu 123 (1992) 500

Higuchi, M. and K. Kodaira, Effect of ZrO_2 addition on FZ growth of rutile single crystals 123 (1992) 495
Ho, Wen-Jeng, see Lin 123 (1992) 451
Hopkins, R.H., see Singh 123 (1992) 221
Hopkins, R.H., see Singh 123 (1992) 227
Huang, Y.C., see Tai 123 (1992) 236
Hunt, J.D., see Lu 123 (1992) 17

Ikeda, H., see Koukitu 123 (1992) 95
Ikeda, H., Y. Nishiyama, A. Koukitu, H. Seki and K. Kuroiwa, Vapor phase epitaxy of InGaAsP by the chloride single flat temperature zone method 123 (1992) 213
Ikuno, H., see Hayashi 123 (1992) 35
Inoue, T., S. Hayashi, S. Miyashita, M. Shimizu, Y. Nishimura and H. Komatsu, Conversion of superconducting Bi-system single crystals from 2212 to 2223 by the annealing method 123 (1992) 615
Ishijima, H., see Katsumata 123 (1992) 597
Ishikawa, M., see Nishikawa 123 (1992) 181
Ishizuka, Y. and T. Miura, Growth mechanism for (11*n*) orientations in Bi–Sr–Ca–Cu–O thin films 123 (1992) 357
Iwanov, D. and D. Nenow, Spontaneous realization of the equilibrium form of adamantane crystals 123 (1992) 195
Iwanov, D. and D. Nenow, The appearance of molecular roughness on the {111} face of adamantane 123 (1992) 436

Jamgotchian, H., see Billia 123 (1992) 399
Jędrsejczak, A., see Grasza 123 (1992) 519
Jiang, Min-hua, see Zhang 123 (1992) 255
Jin, Weiqing and K. Tsukamoto, Anisotropic growth of $LiNbO_3$ crystal as revealed by high temperature in situ observation 123 (1992) 327
Johansen, T.H., The weight gain signal in LEC crystal growth 123 (1992) 188
Jones, E.D., see Schneider 123 (1992) 487
Jones, S.H., see Seidel-Salinas 123 (1992) 575
Joullié, A., see Lazzari 123 (1992) 465

Kajikawa, Y., see Sugiyama 123 (1992) 393
Kalra, M.L., see Singh 123 (1992) 601
Katsumata, T., H. Ishijima, T. Sugano, M. Yamagishi and K. Takahashi, Preparation of starting materials of β-BaB_2O_4 by zone melting 123 (1992) 597
Kaul, P., A. Schütze, D. Kohl, A. Brauers and M. Weyers, Surface chemistry of new As precursors for MOVPE and MOMBE: phenylarsine and tertiarybutylarsine on GaAs(100) 123 (1992) 411
Kayser, O., see Kohl 123 (1992) 174

Kim, Moo-Sung, C. Caneau, E. Colas and R. Bhat, Selective area growth of InGaAsP by OMVPE 123 (1992) 69
Kim, S.D. and J.S. Harris, Jr., Stacking fault stability in GaAs/Si hetero-epitaxial growth 123 (1992) 439
Kimura, H., I. Petrov, F. Adibi and J.E. Greene, Growth and microstructure of epitaxial 45°-rotated bcc W layers on NaCl-structure MgO(001) substrates and TiN(001) buffer layers 123 (1992) 344
Kimura, S., see Tokizaki 123 (1992) 121
Ko, E.I., see Snyder 123 (1992) 163
Kodaira, K., see Higuchi 123 (1992) 495
Kohl, A., D. Marx, M. Weyers, O. Kayser and P. Balk, Localized deposition of In and Ga in MOMBE 123 (1992) 174
Kohl, D., see Kaul 123 (1992) 411
Koinuma, H., see Nagata 123 (1992) 1
Kokubun, Y., see Nishikawa 123 (1992) 181
Kokubun, Y., see Nishiwaka 123 (1992) 326
Komatsu, H., see Aoki 123 (1992) 313
Komatsu, H., see Inoue 123 (1992) 615
Koúkitu, A., T. Miyazawa, H. Ikeda and H. Seki, Atmospheric pressure atomic layer epitaxy of ZnS using Zn and H_2S 123 (1992) 95
Koukitu, A., see Ikeda 123 (1992) 213
Krasnov, A.N., Yu.F. Vaksman and Yu.N. Purtov, p-Type conductivity in ZnSe 123 (1992) 594
Krost, A., see Kuhn 123 (1992) 605
Kuhn, W., A. Naumov, H. Stanzl, S. Bauer, K. Wolf, H.P. Wagner, W. Gebhardt, U.W. Pohl, A. Krost, W. Richter, U. Dümichen and K.H. Thiele, Low temperature MOVPE growth of ZnSe with ditertiarybutylselenide 123 (1992) 605
Kuroiwa, K., see Ikeda 123 (1992) 213

Lambert, B., see Lazzari 123 (1992) 465
Landwehr, G., see Ehinger 123 (1992) 42
Lavrent'eva, L.G., see Bobrobnikova 123 (1992) 529
Lazzari, J.L., J.L. Leclercq, P. Grunberg, A. Joullié, B. Lambert, D. Barbusse and R. Fourcade, Liquid phase epitaxial growth of AlGaAsSb on GaSb 123 (1992) 465
Leclercq, J.L., see Lazzari 123 (1992) 465
Lee, Gwo-Yue, see Lin 123 (1992) 451
Leister, H.-J. and M. Perić, Numerical simulation of a 3D Czochralski-melt flow by a finite volume multigrid-algorithm 123 (1992) 567
Lin, Wei, Yuan-Kuang Tu, Ting-Arn Dai, Wen-Jeng Ho, Gwo-Yue Lee and Hung-Pin Shiao, The $In_xGa_{1-x}As_yP_{1-y}$ ($0.53 < x < 1$, $0 < y < 1$) compound semiconductor for LD structures by organometallic vapor-phase epitaxy 123 (1992) 451
Liu, B., R.F. Hicks and J.J. Zinck, Chemistry of photo-assisted organometallic vapor-phase epitaxy of cadmium telluride 123 (1992) 500
Lu, S.Z. and J.D. Hunt, A numerical analysis of dendritic and cellular array growth: the spacing adjustment mechanisms 123 (1992) 17

Madar, R., see Ghez 123 (1992) 317
Majewski, J., see Grasza 123 (1992) 519
Marchis-Mourin, G., see Boistelle 123 (1992) 109
Marciniak, W., K. Fabisiak, S. Orzeszko and F. Rozploch, Observation of twinning in diamond CVD films 123 (1992) 587
Markgraf, S.A., see Yamamoto 123 (1992) 423
Marx, D., see Kohl 123 (1992) 174
Mazelsky, R., see Singh 123 (1992) 221
Mazelsky, R., see Singh 123 (1992) 227
Menczigar, U., see Wegscheider 123 (1992) 75
Min, E., see Nagata 123 (1992) 1
Mitwalsky, A., see Thoma 123 (1992) 287
Miura, T., see Ishizuka 123 (1992) 357
Miyashita, S., see Inoue 123 (1992) 615
Miyazawa, S., see Sasaura 123 (1992) 126
Miyazawa, T., see Koukitu 123 (1992) 95
Moon, I.H., see Suk 123 (1992) 5
Morante, J.R., see González 123 (1992) 385
Moret, R., see Agafonov 123 (1992) 366
Mori, H., see Takagishi 123 (1992) 203
Motakef, S., see Biber 123 (1992) 545

Nagata, H., M. Yoshimoto, H. Koinuma, E. Min and N. Haga, Type-B epitaxial growth of CeO_2 thin film on Si(111) substrate 123 (1992) 1
Nancollas, G.H., see Zhang 123 (1992) 59
Naumov, A., see Kuhn 123 (1992) 605
Nenow, D., see Iwanov 123 (1992) 195
Nenow, D., see Iwanov 123 (1992) 436
Nishikawa, Y., M. Suzuki, M. Ishikawa, Y. Kokubun and G. Hatakoshi, Effects of residual impurities on Zn electrical activity in Zn-doped InGaAlP grown by metalorganic chemical vapor deposition 123 (1992) 181
Nishikawa, Y., H. Sugawara and Y. Kokubun, Anomalous Mg incorporation behavior in InGaAlP grown by metalorganic chemical vapor deposition (E) 123 (1992) 326
Nishimura, Y., see Inoue 123 (1992) 615
Nishiyama, Y., see Ikeda 123 (1992) 213

Olajos, J., see Wegscheider 123 (1992) 75
Olbright, G.R., see Schneider 123 (1992) 487
Oldman, R.J., see Harding 123 (1992) 373
Oppolzer, H., see Thoma 123 (1992) 287
Orzeszko, S., see Marciniak 123 (1992) 587

Parthier, L., see Utke 123 (1992) 269
Perić, M., see Leister 123 (1992) 567

Petrov, I., see Kimura 123 (1992) 344
Pidduck, A.J., see Cullis 123 (1992) 333
Pogadaev, V.G., see Yakusheva 123 (1992) 479
Pohl, U.W., see Kuhn 123 (1992) 605
Purtov, Yu.N., see Krasnov 123 (1992) 594

Rassat, A., see Agafonov 123 (1992) 366
Richter, W., see Kuhn 123 (1992) 605
Riechert, H., see Thoma 123 (1992) 287
Riesz, F., The analogy between a coherently strained epilayer on a vicinal substrate and a low-angle grain boundary 123 (1992) 309
Robbins, D.J., see Cullis 123 (1992) 333
Rodríguez-Hornedo, N., see Zipp 123 (1992) 247
Rosenberg, J.M., see Samudzi 123 (1992) 47
Rozpłoch, F., see Marciniak 123 (1992) 587
Rule, R.J., see Harding 123 (1992) 373
Rusaikin, M.P., see Bobrobnikova 123 (1992) 529

Samudzi, C.T., M.J. Fivash and J.M. Rosenberg, Cluster analysis of the Biological Macromolecule Crystallization Database 123 (1992) 47
Santoro, G.J., see Singh 123 (1992) 221
Santoro, G.J., see Singh 123 (1992) 227
Sasaura, M. and S. Miyazawa, Single crystal growth of $PrGaO_3$ 123 (1992) 126
Schenk, M., see Utke 123 (1992) 269
Schneider, Jr., R.P., R.P. Bryan, E.D. Jones, R.M. Biefeld and G.R. Olbright, Trimethylamine alane for MOVPE of AlGaAs and vertical-cavity surface-emitting laser structures 123 (1992) 487
Schütze, A., see Kaul 123 (1992) 411
Seidel-Salinas, L.K., S.H. Jones and J.M. Duva, A semi-empirical model for the complete orientation dependence of the growth rate for vapor phase epitaxy: chloride VPE of GaAs 123 (1992) 575
Seki, H., see Koukitu 123 (1992) 95
Seki, H., see Ikeda 123 (1992) 213
Šesták'ová, V., see Štěpánek 123 (1992) 306
Shao, Zong-shu, see Zhang 123 (1992) 255
Shiao, Huang-Pin, see Lin 123 (1992) 451
Shih, S.M., see Chen 123 (1992) 277
Shimizu, M., see Inoue 123 (1992) 615
Sides, P.J., see Snyder 123 (1992) 163
Singh, N.B., M. Gottlieb, T. Henningsen, R.H. Hopkins, R. Mazelsky, M.E. Glicksman, S.R. Coriell, G.J. Santoro and W.M.B. Duval, Growth and characterization of lead bromide crystals 123 (1992) 221
Singh, N.B., M. Gottlieb, T. Henningsen, R.H. Hopkins, R. Mazelsky, M.E. Glicksman, S.R. Coriell, W.M.B. Duval and G.J. Santoro, Effect of growth conditions on the quality of lead bromide crystals 123 (1992) 227
Singh, Y., D.P. Goswami, M. Bala and M.L. Kalra, Large needle-shaped highly conducting organic charge transfer complexes with asymmetric donor molecules 123 (1992) 601
Smith, P.W., see Cullis 123 (1992) 333
Snyder, D.W., P.J. Sides and E.I. Ko, On the rate and uniformity of CdTe deposition in an impinging jet reactor: experimental results 123 (1992) 163
Stanzl, H., see Kuhn 123 (1992) 605
B. Štěpánek and V. Šesták'ová, Indium and nitrogen doping of GaSb single crystals 123 (1992) 306
Sugano, T., see Katsumata 123 (1992) 597
Sugawara, H., see Nishikawa 123 (1992) 326
Sugiyama, N. and Y. Kajikawa, Mechanism of arsenic incorporation growth of gallium arsenide on gallium-covered surfaces 123 (1992) 393
Suk, M.J., G.H. Choi and I.H. Moon, Formation of halo in Sb–InSb and Sn–Bi eutectic alloy systems 123 (1992) 5
Suzuki, M., see Nishikawa 123 (1992) 181
Szadkowski, A., see Grasza 123 (1992) 519
Szwarc, H., see Agafonov 123 (1992) 366

Tai, C.Y., C.S. Cheng and Y.C. Huang, Interpretation of crystal growth rate data using a modified two-step model 123 (1992) 236
Tai, C.Y., see Chen 123 (1992) 277
Takagishi, S., H. Yao and H. Mori, Surface defects of GaAs epitaxial layers grown by low-pressure OMVPE 123 (1992) 203
Takahashi, K., see Katsumata 123 (1992) 597
Tang, D.Y., W.R. Zeng and Q.L. Zhao, A study on growth of β-BaB_2O_4 crystals 123 (1992) 445
Tao, Xu-tang, see Zhang 123 (1992) 255
Tappura, K., Incorporation of group V elements in gas-source molecular beam epitaxy of $Ga_xIn_{1-x}As_yP_{1-y}$ with $x \approx 0.15$ and $y \approx 0.33$ 123 (1992) 133
Terashima, K., see Tokizaki 123 (1992) 121
Thiele, K.H., see Kuhn 123 (1992) 605
Thoma, S., H. Riechert, A. Mitwalsky and H. Oppolzer, Determination of composition profile and atomic-scale roughness of GaAs/AlGaAs interfaces by high-resolution transmission electron microscopy 123 (1992) 287
Tokizaki, E., K. Terashima and S. Kimura, Variations in the physical properties of molten lithium niobate caused by doping with magnesium oxide 123 (1992) 121
Trivedi, R., see Billia 123 (1992) 399
Tsukamoto, K., see Jin 123 (1992) 327
Tu, Yuan-Kuang, see Lin 123 (1992) 451

Utke, I., L. Parthier and M. Schenk, The influence of interdiffusion on the lattice misfit of epitaxial structures 123 (1992) 269

Vaksman, Yu.F., see Krasnov 123 (1992) 594
Van der Heijden, A.E.D.M. and R.M. Geertman, Etch pits on caprolactam 123 (1992) 321
Van Veldhoven, P.J., see Dormans 123 (1992) 537
Vilà, A., see González 123 (1992) 385
Vilenkin, A.J. and A. Brokman, Geometric model of crystal growth between rigid walls. I. Kinetical faceting by geometric constraints 123 (1992) 261
Vilisova, M.D., see Bobrobnikova 123 (1992) 529
Viswanathan, C.R., see Bubulac 123 (1992) 555
Vogels, L.J.P., see Bennema 123 (1992) 141

Waag, A., see Ehinger 123 (1992) 42
Wagner, H.P., see Kuhn 123 (1992) 605
Wang, C.A., see Biber 123 (1992) 545
Wegscheider, W., J. Olajos, U. Menczigar, W. Dondl and G. Abstreiter, Fabrication and properties of epitaxially stabilized Ge/α-Sn heterostructures on Ge(001) 123 (1992) 75
Wenzel, M., see Ehinger 123 (1992) 42
Weyers, M., see Kohl 123 (1992) 174
Weyers, M., see Kaul 123 (1992) 411
Wolf, K., see Kuhn 123 (1992) 605

Xu, Dong, see Zhang 123 (1992) 255

Yakusheva, N.A. and V.G. Pogadaev, Amphoteric behaviour of germanium during liquid phase epitaxy of GaAs from bismuth–gallium melts 123 (1992) 479
Yamagishi, M., see Katsumata 123 (1992) 597
Yamamoto, J.K., S.A. Markgraf and A.S. Bhalla, $Sr_xBa_{1-x}Nb_2O_6$ single crystal fibers: dependence of crystal quality on growth parameters 123 (1992) 423
Yanagi, H., see Hayashi 123 (1992) 35
Yao, H., see Takagishi 123 (1992) 203
Yoshimoto, M., see Nagata 123 (1992) 1
Yuan, Duo-rong, see Zhang 123 (1992) 255

Zahab, A., see Agafonov 123 (1992) 366
Zeng, W.R., see Tang 123 (1992) 445
Zhang, J. and G.H. Nancollas, Dissolution deceleration of calcium phosphate crystals at constant undersaturation 123 (1992) 59
Zhang, Nan, Duo-rong Yuan, Xu-tang Tao, Zong-shu Shao, Shue-xing Dou, Min-hua Jiang and Dong Xu, New nonlinear optical crystal 3-methoxy-4-hydroxy-benzaldehyde and its phase-matched properties 123 (1992) 255
Zhao, Q.L., see Tang 123 (1992) 445
Zinck, J.J., see Liu 123 (1992) 500
Zipp, G.L. and N. Rodríguez-Hornedo, Phenytoin crystal growth rates in the presence of phosphate and chloride ions 123 (1992) 247
Zuzga-Grasza, U., see Grasza 123 (1992) 519

Journal of Crystal Growth 123 (1992) 624–626
North-Holland

JOURNAL OF CRYSTAL GROWTH

Subject index

Adamantane 195, 436
Alloys
– aluminum 313
– indium antimony 5
– tin–bismuth 5
Aluminum
– arsenide 385
– gallium arsenide 487
– gallium arsenide antimonide 465
– organic 487
Ammonium
– dihydrogen phosphate 373
Apparatus
– for solution growth
– – by electrocrystallization
– – – of organic charge transfer complexes 601
– – by flux method
– – – of barium borate 445
– for thin film growth
– – by vapor phase epitaxy
– – – through metalorganic chemical vapor deposition
– – – – of gallium arsenide 203
– – – – of lead titanate 537
– for miscellaneous purposes
– – cadmium telluride deposition (in impinging jet reactor) 163
– – measuring temperature under magnetic field 313
Arsenic
– organic

Barium
– borate 445, 597
Benzaldehyde, 3-methoxy-4-hydroxy 255
Bismuth
– strontium calcium cuprate 357, 615
Buckminster fullerene
– C_{60} 336
Burton–Cabrera–Frank theory 236

Cadmium
– mercury telluride 269, 555
– organic 500
– telluride 42, 163, 500, 519
Calcium
– phosphates 59
– sulphite hemihydrate 277
Cellular growth 17
– of succinonitrile 399
Cerium
– dioxide 1
Characterization methods
– by absorption spectroscopy 519
– by acoustic attenuation 221
– by atomic force microscopy 333
– by Auger electron spectroscopy 75, 203, 385
– by differential thermal analysis 126, 221, 615
– by electrical methods 181, 213, 306, 344, 357, 451, 465, 479, 519, 529, 555, 594, 601, 611
– by electron diffraction 1, 587
– by electron microscopy 35, 69, 174, 195, 203, 247, 277, 287, 327, 333, 344, 357, 366, 385, 399, 439, 451, 465, 555, 587, 605, 611
– by infrared spectroscopy 277
– by low energy electron diffraction 75
– by mass spectrometry 411
– by optical microscopy 5, 126, 203, 255, 306, 321, 423, 445, 451, 459, 495, 611
– by optical properties 227
– by particle size distribution analysis 247, 373
– by photoluminescence 213, 287, 451, 465, 487, 594, 605
– by Raman spectroscopy 75, 605
– by reflection high energy electron diffraction 133, 357, 385, 393
– by Rutherford backscattering 537
– by scanning tunneling microscopy 42
– by second harmonic generation 255
– by secondary ion mass spectrometry 181, 555
– by X-ray methods 1, 75, 95, 126, 213, 255, 269, 277, 344, 357, 366, 373, 445, 451, 465, 519, 529, 537, 605, 611, 615
– by X-ray photoelectron spectroscopy 411
Clusters
– analysis of 47
Constitutional supercooling 459
Convection 121, 227, 423, 545, 567
Crystallization database
– of biological macromolecules 47

Database
– biological macromolecule crystallization 47
Dendritic growth 17
Device characterization
– laser diodes 451, 487
– p–n junction 555
– quantum wells/size effects 213, 287, 451, 487
Diamond 587
Diffusional control 269
– of mercury cadmium telluride 555
– of succinonitrile 399
– of titanium dioxide 495
Dopants 121, 181, 306, 459, 479, 495, 555, 594

Epitaxy, see Thin film growth
Etching
- chemical 42, 203, 269, 306, 321, 423
Eutectic growth
- of alloys 5

Fullerenes 366

Gadolinium
- molybdate 459
Gallium 174
- antimonide 306
- arsenide 188, 203, 287, 385, 393, 411, 439, 479, 529, 575
- indium arsenide phosphide 133
- organic 174, 451
Germanium 75
Glutamic acid 236

Heterojunction 1, 75
Hydrodynamics, see Convection

Ice 101
Indium 174
- antimonide 5
- gallium aluminum phosphide 181
- gallium arsenide phosphide 69, 213, 451
- organic 174, 451

Kinetics
- of doping 529
- of growth 5, 95, 109, 163, 174, 213, 236, 247, 261, 317, 357, 373, 393, 411, 465, 500, 537, 575, 605
- of interface control 59, 261, 357
- of nucleation 69, 385

Laser diodes, see Device characterization
Lead
- bromide 221, 227
- germanate 459
- titanate 537
Light emitting diode, see Device characterization
Lithium
- niobate 121, 327

Magnesium
- sulphate 236
Mathematical model
- of dendritic growth 17
Melt growth technique
- by Bridgman–Stockbarger method
- - of aluminum alloy 313
- - of lead bromide 221, 227
- by Czochralski method
- - of gadolinium molybdate 459
- - of gallium antimonide 306
- - of gallium arsenide 188
- - of lead germanate 459
- - of lithium niobate 121
- - of praseodymium gallate 126
- - numerical simulation of 567
- - theory of 188
- by floating zone method
- - of titanium dioxide 495
- by laser heated pedestal growth
- - of strontium barium niobate 423
- by uniaxial solidification
- - of succinonitrile 399
- by zone melting
- - of barium borate 597
- theory of 101
Mercury
- cadmium telluride 269, 555
Morphological stability
- of gadolinium molybdate 459
- of lead germanate 459
- of lithium niobate 327
- of silicon–germanium 333

Nonlinear optics, crystals for 255
- in barium borate 445
Nucleation 519, 587
Numbers
- Grashof 545
- Marangoni 423
- Peclet 545
- Reynolds 545

Organic charge transfer complexes 601

Periodic bond chain theory 141, 321
Phase diagrams 313
- of aluminum–gallium–antimony 465
- of succinonitrile–acetone 399
Phenomenological theory
- of cellular growth 399
- of dendritic growth 17
Phenytoin 247
Porphyrin
- derivative 35
Praseodymium
- gallate 126
Precursor
- for aluminum gallium arsenide 487
- for gallium arsenide 411
Proteins 109
Purification of materials
- of barium borate 597

Quantum wells/size effects, see Device characterization

Rutile 495

Segregation
– of tin in germanium 75
Silicon
– germanium 333
Sodium
– chlorate 373
Solid growth technique
– by recrystallization
– – of bismuth strontium calcium cuprate 615
Solution growth technique
– by electrocrystallization
– – of organic charge transfer complexes 601
– by flux method
– – of barium borate 445
– – of yttrium barium cuprate 611
– by low temperature method
– – of ammonium dihydroxy phosphate 373
– – of buckminster fullerenes 366
– – of calcium phosphates 59
– – of calcium sulphite hemihydrate 277
– – of organic crystals 141, 255
– – of proteins 109
– – of sodium chlorate 373
– – of sucrose 373
Statistical mechanics, molecular theory
– of adamantane 436
– of β phase monoacid triacylglycerol 141
Stefan problem or moving boundary problem
– of succinonitrile–acetone 399
Step 317, 333, 459
Strain 269, 309, 333, 451
Strontium
– barium niobate 423
Succinonitrile 399
Sucrose 373
Superconducting materials, high T_c
– bulk
– – of BiSCCO 615
– film
– – of BiSCCO 357
– – of YBCO 611
Supercooling, supersaturation 141, 327, 399, 459
Surface processes 317, 411
Surface structure 42, 141, 174, 195, 436

Tellurium
– organic 500
Thin film growth, epitaxy
– by atomic layer epitaxy
– – of zinc sulphide 95
– by liquid phase epitaxy
– – of aluminum gallium arsenide antimonide 465
– – of gallium arsenide 479
– – of mercury cadmium telluride 269
– – of yttrium barium cuprate 611
– by magnetron sputtering
– – of tungsten 344
– by molecular beam epitaxy
– – of aluminum arsenide 385
– – of bismuth strontium calcium cuprate 357
– – of cerium dioxide 1
– – of gallium arsenide 287, 385, 393
– – of gallium indium arsenide phosphide 133
– by vapor phase epitaxy
– – through chemical vapor deposition
– – – of diamond 587
– – – of gallium arsenide 529, 575
– – – of indium gallium arsenide phosphide 213
– – – of silicon–germanium 333
– – through evaporation and condensation
– – – of porphyrin derivative 35
– – through metalorganic chemical vapor deposition
– – – of aluminum gallium arsenide 487
– – – of cadmium telluride 163, 500
– – – of gallium arsenide 203
– – – of indium gallium aluminum phosphide 181
– – – of indium gallium arsenide phosphide 69, 451
– – – of lead titanate 537
– – – of mercury cadmium telluride 55
– – – of zinc selenide 605
– – – theory of 545
Tin
– bismuth alloy 5
– nitride 344
Titanium
– dioxide 495
Triacylglycerol, β phase monoacid 141
Tungsten 344
Twinning
– of buckminster fullerene 366
– of diamond 587

Vapor growth technique
– by chemical transport
– – of cadmium telluride 519
– by evaporation and condensation
– – of adamantane 195

Zinc
– organic 605
– selenide 594, 605
– sulphide 95